

Labeeb Hasan Zaker

🌐 labeebhasanzaker.com | 📞 905 536 0138 | ✉ labeebzaker@gmail.com | 🔗 linkedin.com/in/labeeb-hasan-zaker
| 🐙 github.com/zakerl

EDUCATION AND INVOLVEMENT

Mechatronics Engineering (GPA- 3.875)

MCMASTER UNIVERSITY

SEPTEMBER 2018 - APRIL 2023

Relevant courses: Engineering Computation(python), Programming for Mechatronics (C language)

McMaster Eco-Car Club CAVS Programmer

SEPTEMBER 2019 – PRESENT

- Implemented a **Matlab** code to receive data from the car sensors (**Sensor Fusion**)
 - **Collaborated** with teammates on developing the ACC (Adaptive Cruise Control) algorithm using **Matlab**
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PERSONAL PROJECTS

BloggersInc | HTML5, Semantic UI, CSS3, JavaScript, JQuery, Node.JS, Express.JS

- Implemented **connect-flash** package to handle **errors** properly using flash messages
- Used **MongoDB** to organize and store non-relational databases of **~30** users, blogs and comments
- Constructed a **secure** user login form using **Passport.JS** library

Vehicle Collision Avoidance Program | Python3

- Lead development of an adaptive **Python** program that could detect obstacles, road conditions, and lane markers using **OpenCV**, **NumPy**, **matplotlib** libraries
- Employed **NumPy** to account for **data processing** on arrays of integer coordinates, thus increasing **accuracy** of computer detection results on lanes
- Implemented **CV2** library to **visualize** the detection results on various videos or images

Personal Portfolio | HTML5, Bootstrap4, CSS3, JavaScript, JQuery, Node.JS, Express.JS

- Implemented **CSS** and **JavaScript** to create **animations** and run them only when in **viewport** using **JavaScript** functions
 - Improved **site-responsiveness** by adding **Bootstrap4**
 - Refined **communication** service by using **node-mailer** library to handle over a **100** monthly emails
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Skills

Front-end: HTML5, CSS3, jQuery

Languages: JavaScript, Python, C/C++, Matlab

Back-end: Node.JS, MongoDB, Rest API

Frameworks: Bootstrap4, Express.JS, Git